**Pythagoras Theorem Revision Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question 1** (2 marks)

Mark in the Hypotenuse on the following Right Triangles



**Question 2** (3 marks)

What is the length of the hypotenuse in the triangle below? **Show to 1 decimal place.**

**Question 3 (**3marks)

What is the length of the hypotenuse in the triangle below? **Show to 1 decimal place.**



**Question 4**  (3 marks)

Find the length of the missing side (a)



**Question 5** (1 mark)

In this right-angled triangle, circle which of the following statements is true?

**A** *r*2 – *q*2 = *p*2

**B** *q*2 + *p*2 = *r*2

**C** *p*2 = *q*2 – *r*2  q p

**D** *r*2 + *p*2 = *q*2

**E** *p*2 – *q*2 = *r*2

 r

**Question 6** (3 marks)

What is the length of the diagonal (x) in a square with side length of 18 cm? **(1 decimal place)**



**Question 7** (2 marks) if you show some working

The value of the pronumeral in this diagram is:



**A** 34.5

**B** 24.1

**C** 26.2

**D** 27.9

**E** 17.6

**Question 8** (3 marks)

Find the value of the pronumeral (d) in this diagram. **Correct to one decimal place**.



**Question 8** (3 marks)

Find the value of the pronumeral (*a)* **Correct to one decimal place.**



**Question 9** (3 marks) **diagram & full working**

Christiana walks diagonally from corner to corner in a rectangular field 56 m wide and 212 m long. How far does she walk?

**Question 10** (3 marks)

 **diagram & full working**

How tall is a flag pole if it is anchored 2.2 m from its base with a 9 m support wire? **Correct to one decimal place.**

**Question 11** (3 marks)

Find the height of an isosceles triangle with equal sides of 25 cm and base of 22 cm. **Correct to one decimal place.**

